

GRACE W R AND CO EMERSON & CUMING DEWEY & ALMY DIV -- ECCOBOND 87H (NF) --  
8040-00-159-5019

===== Product Identification =====

Product ID:ECCOBOND 87H (NF)

MSDS Date:11/21/1990

FSC:8040

NIIN:00-159-5019

MSDS Number: BDDCT

=== Responsible Party ===

Company Name:GRACE W R AND CO EMERSON & CUMING DEWEY & ALMY DIV

Address:869 WASHINGTON ST

City:CANTON

State:MA

ZIP:02021-2513

Country:US

Info Phone Num

:617-828-3300

Emergency Phone Num:617-935-4850 OR 617-938-8630

Preparer's Name:DAVID HAAS

CAGE:0NAV2

=== Contractor Identification ===

Company Name:GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM

Address:869 WASHINGTON ST

City:CANTON

State:MA

ZIP:02021-2513

Country:US

Phone:617-935-4850

CAGE:04552

Company Name:GRACE W R AND CO

Address:919 18TH ST NW

City:WASHINGTON

State:DC

ZIP:20006

Country:US

Phone:410-659-9000

CAGE:0NAV2

===== Composition/Information on Ingredients =====

Ingred Name:METHYLENE CHLORIDE (SARA III)

CAS:75-09-2

RTECS #:PA8050000

Fraction by Wt: 30-40%

Other REC Limits:NONE SPECIFIED

OSHA PEL:500 PPM/C,1000; Z2

ACGIH TLV:50 PPM, A2; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE)

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: 30-40%

Other REC Limits:NONE SPECIFIED

OSHA PEL:350 PPM/450 STEL

ACGIH TLV:350 PPM/450STEL,9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ozone Depleting Chemical:1

Ingred N

ame:TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000

Fraction by Wt: 5-10%

Other REC Limits:NONE SPECIFIED

OSHA PEL:200 PPM/150 STEL

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:CHLOROBENZENE (SARA III), (MONOCHLOROBENZENE)

CAS:108-90-7

RTECS #:CZ0175000

Fraction by Wt: 2-5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:75 PPM

ACGIH TLV:10 PPM; 9192

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:ISOPROPYL ALCOHOL (SARA III)

CAS:67-63-0

RTECS #:NT8050000

Frac

tion by Wt: 1-5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:400 PPM/500 STEL  
ACGIH TLV:400 PPM/500STEL;9192

Ingred Name:PROPYLENE OXIDE (SARA III)  
CAS:75-56-9  
RTECS #:TZ2975000  
Fraction by Wt: 0.1%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM  
ACGIH TLV:20 PPM; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:PHENOLIC RESIN  
Fraction by Wt: 5-10%  
Other REC Limits:NONE SPECIFIED

Ingred Name:SYNTHETIC RUBBER  
Fraction by Wt: 5-10%  
Other REC Limits:NONE SPECIFIED

=====  
Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:EYES: SEVERE BUT REVERSIBLE EYE  
IRRITATION. INHALATION: OVEREXPOSURE MAY CAUSE RESPIRATORY  
IRRITATION AND SEVERE BUT REVERSIBLE LIVER AND KIDNEY INJURY,  
CENTRAL NERVOUS SYSTEM INJURY AND CARDIAC SENSITIZATION. HARMFUL  
IF INGESTED. SKIN: CONTACT MAY CAUSE MILD IRRITATION. LONG EXPOSURE

TO LIQUID MAY CAUSE DERMITITIS.

Effects of Overexposure:IRRITATION OF THE EYES, SKIN AND RESPIRATORY  
TRACT. MAY CAUSE HEADACHE, DIZZINESS, NAUSEA AND ANESTHETIC EFFECTS  
OR OTHER TEMPORARY CENTRAL NERVOUS SYSTEM EFFECTS. MAY ALSO CAUSE  
ALLERGIC SKIN REACTIONS WITH SYMPTOMS INCLUDING RASH, ITCHING,  
HIVES AND SWELLING OF THE EXTREMITIES.

Medical Cond Aggravated by Exposure:EXPOSURE MAY AGGRIVATE PRE-EXISTING  
SKIN, EYE AND RESPIRATORY DISORDERS.

===== First

Aid Measures =====

First Aid:EYES: FLUSH EYES WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. GIVE CPR IF NOT BREATHING. IF BREATHING DIFICULT GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: DO N OT INDUCE VOMITING. IF CONSCIOUS GIVE WATER TO DRINK. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

===== Fire Fighti  
ng Measures =====

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

===== Acciden  
tal Release Measures =====

Spill Release Procedures:WIPE UP SMALL SPILLS AND WASH AREA WITH SOAP AND WATER. DIKE LARGE SPILLS TO PREVENT RELEASE TO SEWERS AND WATERWAYS. COLLECT SPILLED MATERIAL, SOAK UP RESIDUE WITH ABSORBENT AND WASH AREA WITH SOAP A ND WATER.COLLECT ABSORBED MATERIAL AND WASH WATER.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE. KEEP CONTAINERS CLOSED WHEN NO T IN USE. KEEP AWAY FROM HEAT AND IGNITION SOURCES.

Other Precautions:AVOID PROLONGED OR REPEATED CONTACT WITH THE VAPORS AND THE LIQUID. STORE IN AREA WITH ADEQUATE VENTILATION.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF EXPOSURES EXCEED PEL/TLV VALUES, USE AN APPROPRIATE, PROPERLY FITTED RESPIRATOR. THE TYPE OF RESPIRATOR PROTECTION SELECTED WILL DEPEND UPON THE CONDITIONS OF USE. OBSERVE OSHA REGULATIONS FOR RESP IRATORY

PROTECTION (29 CFR 1910.134).

Ventilation:LOCAL AND MECHANICAL(GENERAL) EXHAUST THAT PROVIDES ADEQUATE VENTILATION TO MAINTAIN AREA WITHIN THE PEL/TLV VALUES.

Protective Gloves:NITRILE RUBBER GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES OR FACE SHIELD

Other Protective Equipment:WEAR INDUSTRIAL WORK CLOTHING. USE RUBBER APRON OR BOOTS IF NEEDED. HAVE EMERGENCY EYE WASH AND SAFETY SHOWER AVAILABLE.

Work Hygienic Practices:WASH HANDS AND FACE AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MIST. DO NOT INGEST. READ PRECAUTIONS ON LABEL BEFORE USE.

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:120F,49C

Vapor Pres:220 @25C

Vapor Density:>AIR

Spec Gravity:1.25

Solubility in Water:INSOLUBLE

Appearance and Odor:YELLOW LIQUID, SOLVENT ODOR.

Percent Volatiles by Volume:80-85

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ACIDS AND BASES.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION. DO NOT STORE IN OPEN CONTAINERS.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, PHENOLS, PHOSGENE, ACIDS AND OTHER ORGANICS MAY BE FORMED DURING COMBUSTION.

Conditions to Avoid Polymeri

zation:UNCONTROLLED MIXING WITH CURING

AGENTS AND EXPOSURE TO STRONG OXIDIZERS, ACIDS AND BASES.

===== Disposal Considerations =====

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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